PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FI-4404	FOR FURTHER ACTION	See item 4 below			
	International filing date (day/month/year) 28 September 2004 (28.09.2004)	Priority date (day/month/year) 09 October 2003 (09.10.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant IDEMITSU KOSAN CO., LTD.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.					
:	In the attached sheets, any refer to the international preliminary	ence to the written opinion of report on patentability (Chapt	the International Searching Authority should be read as a reference er I) instead.			
3.	3. This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opin applicability	nion with regard to novelty, inventive step and industrial			
	Box No. IV	Lack of unity of invention				
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement			
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the inter	rnational application			
	Box No. VIII	Certain observations on th	e international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).					
			Date of issuance of this report 26 June 2006 (26.06.2006)			
The International Bureau of WIPO			Authorized officer			
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: PCT PCT					
WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
(PCT Rule 43bis.1)					
Date of mailing (day/month/year)					
Applicant's or agent's file reference FOR FURTHER ACTION					
FI-4404 See paragraph 2 below					
International application No. Priority date (day/month/year) Priority date (day/month/year) Priority date (day/month/year) Priority date (day/month/year) O9.10.2003					
International Patent Classification (IPC) or both national classification and IPC Applicant					
IDEMITSU KOSAN CO., LTD.					
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion					
Name and mailing address of the ISA/JP Authorized officer					
Facsimile No. Telephone No.					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/014559

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed antion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/014559

Вох	No. V			ale 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement				
	Novelty	(N)	Claims		YES
			Claims	1-9	NO
	Inventiv	e step (IS)	Claims		YES
			Claims	1-9	NO
	Industria	ıl applicability (IA)	Claims	1-9	YES
			Claims		NO
i					

2. Citations and explanations:

Document 1: WO, 2003-002659, A1 (Toyo Kasei Kogyo Co., Ltd.), 9 January, 2003 (09.01.03), claims; pages 4, 6, 12 & WO, 2003-002659, A1 Document 2: JP, 8-50447, A (Exxon Chemical Patents Inc.), 14 May, 1996 (14.05.96), claims: pages 10, 13, 23 & US, 5567344, A & US, 5663129, A

Claim 1

The invention described in claim 1 does not appear to be novel nor to involve an inventive step. The polyolefin described in claim 1 is produced by polymerization of at least one kind of α -olefin having 10 or more carbon atoms. The polyolefin described in documents 1-2 is also produced by polymerization of α -olefin having 10 or more carbon atoms, and the catalysts used for polymerization in the inventions described in both claim 1 and documents 1-2 are also polymerized by the use of a biscyclopentadienyl derivative with an olefin having carbon atomics of decene or more as a catalyst (see pages 4 and 6 of document 1, and pages 10 and 13 of document 2). It is described in documents 1-2 that this polymer is denatured by the use of, for example, maleic anhydride and a decomposition drug is used in combination (see claims and examples in document1 and claims in document 2). It is not found that difference is brought about among polymers obtained and that difference is brought about in the side chain crystalline property, one of physical properties of those polymers.

Claims 2, 5

The inventions described in claims 2-5 do not appear to be novel nor to involve an inventive step. The olefin polymer of the inventions described in claims 2-5 restricts the olefin polymer described in claim 1 with regard to a producing method, weight-average molecular weight and molecular weight distribution, but the producing method is described in documents 1-2 as mentioned above. Weight-average molecular weight and molecular weight distribution are also described in documents 1-2. It is not recognized that difference is brought about in these matters.

Claims 6-9

The inventions described in claims 6-9 do not appear to be novel nor to involve an inventive step. The inventions described in claims 6-9 are methods of producing an olefin polymer. As sated above, documents 1-2 describe the same things about a monomer, a catalyst, a decomposition drug, a polar compound, and a halogen compound, and difference is not found as a process for production.